

CLAIMS

1. A foldable scaffold convertible between a use position and a folded position, the foldable scaffold comprising
 - 5 a floor configured to act as a support when the scaffold is in the use position, the floor including first and second floor sections coupled to pivot relative to one another to convert the scaffold between the use and folded positions, the first and second floor sections forming a support surface when the scaffold is in the use position and defining a cavity therebetween when the scaffold is in the folded
 - 10 position,
 - a first leg coupled to the first floor section and a second leg coupled to the second floor section, the first and second legs being configured to support the floor at an elevated position when the scaffold is in the use position and to be received by the cavity when the scaffold is in the folded position, and
 - 15 at least one first leg mover link pivotably coupling the first floor section to the second leg and at least one second leg mover link pivotably connecting the second floor section to the first leg such that the first leg pivots relative to the first floor section and the second leg pivots relative to the second floor section as the first and second floor sections pivot relative to each other.
- 20 2. The foldable scaffold of claim 1, wherein the first floor section has a first serpentine mating edge and the second floor section has a second serpentine mating edge that mates with the first serpentine mating edge when the scaffold is converted to the use position.
3. The foldable scaffold of claim 2, wherein the floor further
 - 25 includes a first axle mount coupled to the first floor section and formed to include a first axle-receiving space, a second axle mount coupled to the second floor section and formed to include a second axle-receiving space, and an axle arranged to extend through the first and second axle-receiving spaces and across the first and second serpentine mating edges to couple the first floor section to the second floor section
 - 30 and establish a pivot axis to allow the first and second floor sections to pivot relative to one another about the pivot axis as the scaffold is converted between the use and folded positions.

4. The foldable scaffold of claim 3, wherein the first floor section has a body coupled to the first leg, the second floor section has a body coupled to the second leg, the first serpentine mating edge defines a peninsula extending from the body of the first floor section past the pivot axis toward the body of the second floor section, the second serpentine mating edge defines a peninsula extending from the body of the second floor section past the pivot axis toward the body of the first floor section, the second serpentine mating edge of the second floor section is arranged to mate with the first serpentine mating edge of the first floor section when the scaffold is converted to the use position to cause the peninsulas of the first and second floor sections to lie in side-by-side relation to one another, the first axle mount is coupled to the peninsula of the first floor section, the second axle mount is coupled to the peninsula of the second floor section, and the axle is arranged to extend across the peninsulas of the first and second floor sections.

5. The foldable scaffold of claim 1, wherein the first leg is coupled to the first floor section by at least one pivot pin and the second leg is coupled to the second floor section by at least one pivot pin.

6. The foldable scaffold of claim 1, wherein the first and second floor sections cooperate to form a handle when the scaffold is in the folded position.

7. The foldable scaffold of claim 6, wherein the first floor section defines a hole, the second floor section defines a hole, and the two holes align when the scaffold is in the folded position to form the handle.

8. The foldable scaffold of claim 1, further comprising a center leg disposed between the first and second legs and coupled to the floor, and wherein the center leg cooperates with the first and second legs to support the first and second floor sections at an elevated position when the scaffold is in the use position and is received by the cavity when the scaffold is in the folded position.

9. The foldable scaffold of claim 8, wherein the floor further includes a first axle mount coupled to the first floor section and formed to include a first axle-receiving space, a second axle mount coupled to the second floor section and formed to include a second axle-receiving space, and an axle arranged to extend through the first and second axle-receiving spaces to establish a pivot axis to allow the first and second floor sections to pivot relative to one another about the pivot axis, the

center leg is coupled to one end of the axle and further comprising another center leg coupled to an opposite end of the axle to cooperate with the first, second, and center legs to support the first and second floor sections at an elevated position when the scaffold is in the use position and is received by the cavity when the scaffold is in the folded position.

10. The foldable scaffold of claim 9, wherein the first axle mount is formed to include a first slot, the second axle mount is formed to include a second slot, and the axle includes an axle rod coupled to the center legs and arranged to extend through the first and second axle-receiving spaces, a first rod post coupled to the axle rod and arranged to extend into the first slot and to move therein during pivoting movement of the first floor section relative to the second floor section, and a second rod post coupled to the axle rod and arranged to extend into the second slot and move therein during pivoting movement of the first floor section relative to the second floor section.

11. The foldable scaffold of claim 10, wherein the first axle mount includes a U-shaped strap including a first quarter section facing toward the first floor section and a second quarter section facing toward the second floor section, the first slot is formed in the first quarter section of the U-shaped strap of the first axle mount, the second axle mount includes a U-shaped strap including a first quarter section facing toward the first floor section and a second quarter section facing toward the second floor section, and the second slot is formed in the second quarter section of the second axle mount.

12. The foldable scaffold of claim 8, wherein each of the first and second legs includes a bend defining a void and the center leg is received by the voids during pivoting of the first and second legs as the scaffold is converted between the use and folded positions.

13. The foldable scaffold of claim 8, wherein the first floor section includes a bottom defining a channel for receiving the first leg when the scaffold is in the folded position and the second floor section includes a bottom defining a channel for receiving the second leg when the scaffold is in the folded position.

14. The foldable scaffold of claim 13, wherein each of the first and second legs includes a bend defining a void, the third leg is received by the voids

during pivoting of the first and second legs as the scaffold is converted between the use and folded positions, and the channels include channel bends to receive the bends of the first and second legs when the scaffold is in the folded position.

15 15. The foldable scaffold of claim 8, further comprising orientation means for maintaining the center leg in a position along the pivot axis bisecting an included angle between the first and second floor sections as the first and second floor sections pivot relative to one another about the pivot axis as the scaffold is converted between the use and folded positions.

10 16. A foldable scaffold convertible between a use position and a folded position, the foldable scaffold comprising
 a floor including first and second floor sections coupled to pivot relative to one another to convert the scaffold between the use and folded positions, the first and second floor sections forming a support surface when the scaffold is in the use position and defining a cavity when the scaffold is in the folded position,
15 a first leg coupled to the first floor section and a second leg coupled to the second floor section, the first and second legs being configured to support the floor at an elevated position when the scaffold is in the use position and to be received by the cavity when the scaffold is in the folded position, and
 a center leg coupled to the floor and disposed between the first and
20 second legs, the center leg cooperating with the first and second legs to support the first and second floor sections at an elevated position when the scaffold is in the use position and being received by the cavity therebetween when the scaffold is in the folded position.

25 17. The foldable scaffold of claim 16, wherein the first and second legs pivot relative to the floor as the first and second floor sections pivot relative to each other.

 18. The foldable scaffold of claim 17, wherein the first leg is pivotably coupled to the second floor section by a first leg mover link and the second leg is pivotably coupled to the first floor section by a second leg mover link.

30 19. The foldable scaffold of claim 17, further comprising at least one first leg mover link pivotably coupling the first leg to the second floor section and at least one second leg mover link pivotably coupling the second leg to the first floor

section, and wherein the first and second leg mover links are configured to pivot relative to the floor as the scaffold is converted between the use and folded positions.

20. The foldable scaffold of claim 19 wherein the first leg is pivotably coupled to the first floor section by at least one pivot pin and the second leg is pivotably coupled to the second floor section by at least one pivot pin.

21. The foldable scaffold of claim 16, wherein each of the first and second legs includes a bend defining a void and the center leg is received by the voids during pivoting of the first and second legs as the scaffold is converted between the use and folded positions.

22. A foldable scaffold convertible between a use position and a folded position, the foldable scaffold comprising
a floor configured to act as a support when the scaffold is in the use position, the floor including first and second floor sections, a first axle mount coupled to the first floor section and formed to include a first axle-receiving space, a second axle mount coupled to the second floor section and formed to include a second axle-receiving space, an axle arranged to extend through the first and second axle-receiving spaces to couple the first floor section to the second floor section and establish a pivot axis to allow the first and second floor section to pivot relative to one another about the pivot axis as the scaffold is converted between the use and folded positions,

a first leg pivotably coupled to the first floor section,
a second leg pivotably coupled to the second floor section, and
a center leg coupled to the axle and arranged to lie between the first and second floor sections upon movement of the scaffold to the folded position.

23. The foldable scaffold of claim 22, wherein the first and second floor sections cooperate to form a support surface when the scaffold is in the use position and define a cavity therebetween when the scaffold is in the folded position and the first, second, and center legs cooperate to support the floor at an elevated position when the scaffold is in the use position and to be received by the cavity when the scaffold is in the folded position.

24. The foldable scaffold of claim 22, wherein the first axle mount is formed to include a first slot, the second axle mount is formed to include a second

slot, and the axle includes an axle rod coupled to the center leg and arranged to extend through the first and second axle-receiving spaces, a first rod post coupled to the axle rod and arranged to extend into the first slot and to move therein during pivoting movement of the first floor section relative to the second floor section, and a second
5 rod post coupled to the axle rod and arranged to extend into the second slot and move therein during pivoting movement of the first floor section relative to the second floor section.

25. The foldable scaffold of claim 24, wherein the first axle mount includes a U-shaped strap including a first quarter section facing toward the first floor
10 section and a second quarter section facing toward the second floor section, the first slot is formed in the first quarter section of the U-shaped strap of the first axle mount, the second axle mount includes a U-shaped strap including a first quarter section facing toward the first floor section and a second quarter section facing toward the second floor section, and the second slot is formed in the second quarter section of the
15 second axle mount.

26. The foldable scaffold of claim 24, wherein the first floor section has a body coupled to the first leg and a first serpentine mating edge defining a peninsula extending from the body of the first floor section past the pivot axis toward the body of the second floor section, the second floor section has a body
20 coupled to the second leg and a second serpentine mating edge defining a peninsula extending from the body of the second floor section past the pivot axis toward the body of the first floor section, the second serpentine mating edge of the second floor section is arranged to mate with the first serpentine mating edge of the first floor section when the scaffold is converted to the use position to cause the peninsulas of
25 the first and second floor sections to lie in side-by-side relation to one another, the first axle mount is coupled to the peninsula of the first floor section, and the second axle mount is coupled to the peninsula of the second floor section.

27. The foldable scaffold of claim 22, wherein the first floor section has a first serpentine mating edge and the second floor section has a second
30 serpentine mating edge that mates with the first serpentine mating edge when the scaffold is converted to the use position.

28. The foldable scaffold of claim 27, wherein the first floor section includes a body coupled to the first leg and a center peninsula extending from the body of the first floor section and having a boundary defined by a portion of the first serpentine mating edge, the second floor section includes a body coupled to the second leg and a first peninsula extending from the body of the second floor section and having a boundary defined by a first portion of the second serpentine mating edge, the first axle mount is coupled to the center peninsula of the first floor section, and the second axle mount is coupled to the first peninsula of the second floor section.

29. The foldable scaffold of claim 28, wherein the second floor section further includes a second peninsula extending from the body of the second floor section and lying in spaced-apart position to the first peninsula to locate the center peninsula therebetween, the floor further includes an auxiliary second axle mount coupled to the second peninsula and formed to include another axle-receiving space, and the axle is arranged to extend through the axle-receiving space formed in the auxiliary second axle mount.

30. The foldable scaffold of claim 29, wherein the center leg is coupled to one end of the axle and further comprising another center leg coupled to an opposite end of the axle to cause the first, second, and auxiliary second axle mount to lie between the center legs coupled to the axle.

31. The foldable scaffold of claim 22, wherein the first floor section includes a body coupled to the first leg and a center peninsula arranged to extend from the body of the first floor section and coupled to the first axle mount and the second floor section includes a body coupled to the second leg and a first peninsula arranged to extend from the body of the second floor section and coupled to the second axle mount.

32. The foldable scaffold of claim 31, wherein the second floor section further includes a second peninsula extending from the body of the second floor section and lying in spaced-apart position to the first peninsula to locate the center peninsula therebetween, the floor further includes an auxiliary second axle mount coupled to the second peninsula and formed to include another axle-receiving space, and the axle is arranged to extend through the axle-receiving space formed in the auxiliary second axle mount.

33. The foldable scaffold of claim 32, wherein each of the first, second, and auxiliary second axle mounts is formed to include a post-receiving slot, and the axle includes an axle rod coupled to the center leg and arranged to extend through the axle-receiving space formed in each of the first, second, and auxiliary
5 second axle mounts, a first rod post coupled to the axle rod and arranged to extend into the post-receiving slot of the first axle mount, a second rod post coupled to the axle rod and arranged to extend into the post-receiving slot of the second axle mount, and a third rod post coupled to the axle rod and arranged to extend into the post-receiving slot of the auxiliary second axle mount.

10 34. The foldable scaffold of claim 22, further comprising orientation means for maintaining the center leg in a position along the pivot axis bisecting an included angle between the first and second floor sections as the first and second floor sections pivot relative to one another about the pivot axis as the scaffold is converted between the use and folded positions.

15 35. A foldable scaffold convertible between a use position and a folded position, the foldable scaffold comprising
a floor configured to act as a support when the scaffold is in the use position, the floor including first and second floor sections coupled to pivot relative to one another as the scaffold is converted between the use and folded positions, the first
20 and second floor sections forming a support surface when the scaffold is in the use position and defining a cavity therebetween when the scaffold is in the folded position,

first and second legs configured to support the first and second floor sections at an elevated position when the scaffold is in the use position and to be
25 received by the cavity when the scaffold is in the folded position,

means for pivotably coupling the first and second legs to the floor such that the first and second legs pivot relative to the floor as the first and second sections pivot relative to each other, and

30 a center leg disposed between the first and second legs and coupled to the floor, the third leg cooperating with the first and second legs to support the floor at an elevated position when the scaffold is in the use position and to be received by the cavity when the scaffold is in the folded position.

36. The foldable scaffold of claim 35, wherein the means for pivotably coupling the first and second legs to the floor comprises a plurality of leg mover links configured to pivot relative to the floor as the first and second floor sections pivot relative to each other.

5 37. The foldable scaffold of claim 35, wherein the means for pivotably coupling the first and second legs to the floor comprises a pair of first leg mover links pivotably connecting the second floor section to the first leg and a pair of second leg mover links pivotably connecting the first floor section to the second leg, and the first and second leg mover links are configured to pivot relative to the floor as
10 the first and second floor sections pivot relative to each other.

38. The foldable scaffold of claim 37 wherein the means for pivotably coupling the first and second legs to the floor further comprises at least one first pivot pin connecting the first leg with the first floor section and at least one second pivot pin connecting the second leg with the second floor section.

15 39. The foldable scaffold of claim 30, wherein the means for pivotably coupling the first and second legs to the floor comprises a plurality of pivot pins connecting the first leg to the first floor section and the second leg to the second floor section.

40. A foldable scaffold convertible between a use position and a
20 folded position, the foldable scaffold comprising
a floor including a first floor section pivotably coupled to a second floor section,
a first leg pivotably coupled to the first floor section,
a first leg mover link pivotably coupled at one end to the first leg and
25 at another end to the second floor section,
a second leg pivotably coupled to the second floor section, and
a second leg mover link pivotably coupled at one end to the second leg and at another end to the first floor section.

41. The foldable scaffold of claim 40, wherein the first leg includes
30 a first leg portion pivotably coupled to the first floor section and a second leg portion arranged to lie in spaced-apart relation to the first leg portion and pivotably coupled to the first floor section and the first leg mover link is pivotably coupled to the first leg

portion and further comprising another first leg mover link pivotably coupled at one end to the second leg portion and at another end to the second floor section.

42. The foldable scaffold of claim 41, wherein the second leg includes a first leg portion pivotably coupled to the second floor section and a second leg portion arranged to lie in spaced-apart relation to the first leg portion of the second leg and pivotably coupled to the second floor section and the second leg mover link is pivotably coupled to the first leg portion of the second leg and further comprising another second leg mover link pivotably coupled at one end to the second leg portion of the second leg and at another end to the first floor section.
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